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	FIRST INVENTOR: Thomas THISTED	
	FILING DATE: March 20, 2006	
	EXAMINER: Not Yet Known	CONF. NO: 4397 ART UNIT: 1645

U.S. PATENT DOCUMENTS (include at least patentee, patent/pub number and filing/issue/pub date)

EXAM. INITIAL	ID	DOCUMENT NUMBER	FILING, ISSUE OR PUBLICATION DATE (YYYY-MM-DD)	PATENTEE OR APPLICANT	Relevant Passage(s)	T*
	1	6,620587 B1	2003-09-16	TAUSSIG et al.		
	2	6,593,088 B1	2003-07-15	SAITO et al.		
	3	6,429,300 B1	2002-08-06	KURZ et al.		
	4	6,416,949 B1	2002-07-09	DOWER et al.		
	5	6,297,053 B1	2001-10-02	W. P. C. STEMMER		
	6	6,207,446 B1	2001-03-27	SZOSTAK et al.		
	7	6,165,778 A	2000-12-26	H. KEDAR		
	8	6,165,717 A	2000-12-26	DOWER et al.		
	9	6,143,503 A	2000-11-07	BASKERVILLE et al.		
	10	6,143,497 A	2000-11-07	DOWER et al.		
	11	6,140,493 A	2000-10-31	DOWER et al.		
	12	6,060,596 A	2000-05-09	LERNER et al.		
	13	6,056,926 A	2000-05-02	SUGARMAN et al.		
	14	5,843,650 A	1998-12-01	D. SEGEV		
	15	5,830,658 A	1998-11-03	S. M. GRYAZNOV		
	16	5,789,162 A	1998-08-04	DOWER et al.		
	17	5,780,613 A	1998-07-14	LETSINGER et al.		
	18	5,770,358 A	1998-06-23	DOWER et al.		
	19	5,741,643 A	1998-04-21	GRYAZNOV et al.		
	21	5,723,598 A	1998-03-03	LERNER et al.		
	22	5,708,153 A	1998-01-13	DOWER et al.		
	23	5,681,943 A	1997-10-28	LETSINGER et al.		

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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EXAM. INITIAL	ID	DOCUMENT NUMBER	FILING, ISSUE OR PUBLICATION DATE (YYYY-MM-DD)	PATENTEE OR APPLICANT	Relevant Passage(s)	T*
	24	5,665,975 A	1997-09-09	H. Kedar		
	25	5,639,603 A	1997-06-17	Dower et al.		
	26	5,573,905 A	1996-11-12	Lerner et al.		
	27	5,571,903 A	1996-11-05	S. M. Gryaznov		
	28	5,503,805 A	1996-04-02	Sugarman et al.		
	29	5,476,930 A	1995-12-19	Letsinger et al.		
	30	4,822,731 A	1989-04-18	Watson et al.		
	31	2005/0170376 A1	2005-08-04	Liu et al.		
	32	2005/0142583 A1	2005-06-30	Liu et al.		
	33	2005/0042669 A1	2005-02-24	Liu et al.		
	34	2005/0025766 A1	2005-02-03	Liu et al.		
	35	2003/0004122 A1	2003-01-02	Beigelman et al.		

FOREIGN PATENT DOCUMENTS (include at least document number, publication date and country)

EXAM. INITIAL	ID	COUNTRY CODE & DOCUMENT NUMBER	PUBLICATION DATE YYYY-MM-DD	PATENTEE OR APPLICATION	Relevant Passage(s)	T*
	36	EP 1 533 385 A1	2005-05-25	Nuevolution A/S		
	37	EP 0 776 330 B1	1997-06-04	C. Holmes		
	38	EP 0 773 227 A1	1997-05-14	Affymax Technologies N.V.		
	39	EP 0 695 305 B1	1996-02-07	Northwestern Univ.		
	40	EP 0 643 778 B1	1995-03-20	The Scripps Research Institute		
	41	EP 0 604 552 B1	1994-07-06	Affymax Technologies N.V.		
	42	EP 0 324 616 B1	1989-07-19	Amoco Corporation		
	43	WO 2006/053571 A2	2006-05-26	P. Rasmussen		
	44	WO 2006/048025 A1	2006-05-11	N. Hansen		

EXAMINER	DATE CONSIDERED

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	45	WO 2005/026387 A1	2005-03-24	T. Thisted et al.		
	46	WO 2005/003778 A2	2005-01-13	Nuevolution A/S		
	47	WO 2004/001042 A2	2003-12-31	Nuevolution A/S		
	48	WO 2004/110964 A2	2004-12-23	Nuevolution A/S		
	49	WO 2004/099441 A2	2004-11-18	Hyscite Discovery A/S		
	50	WO 2004/083427 A2	2004-09-30	Nuevolution A/S		
	51	WO 2004/074501 A2	2004-09-02	Nuevolution A/S		
	52	WO 2004/074429 A2	2004-09-02	Nuevolution A/S		
	53	WO 2004/056994 A2	2004-07-08	Nuevolution A/S		
	54	WO 2004/039825 A2	2004-05-13	Nuevolution A/S		
	55	WO 2004/024929 A2	2004-03-25	Nuevolution A/S		
	56	WO 2004/016767 A2	2004-02-26	The President and Fellows of Harvard College		
	57	WO 2004/013070 A2	2004-02-12	Nuevolution A/S		
	58	WO 2004/009814 A1	2004-01-29	Nuevolution A/S		
	59	WO 03/082901 A2	2003-10-09	Emory University		
	60	WO 03/078627 A2	2003-09-25	Nuevolution A/S		
	61	WO 03/078626 A2	2003-09-25	Nuevolution A/S		
	62	WO 03/078625 A2	2003-09-25	Nuevolution A/S		
	63	WO 03/078446 A2	2003-09-25	Nuevolution A/S		
	64	WO 03/078445 A2	2003-09-25	Nuevolution A/S		
	65	WO 03/078050 A2	2003-09-25	Nuevolution A/S		
	66	WO 03/025567 A2	2003-03-27	A. Bernard		
	67	WO 02/103008 A2	2002-12-27	Nuevolution A/S		
	68	WO 02/102820 A1	2002-12-27	Nuevolution A/S		

EXAMINER	DATE CONSIDERED

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EXAM. INITIAL	ID	COUNTRY CODE & DOCUMENT NUMBER	PUBLICATION DATE YYYY-MM-DD	PATENTEE OR APPLICATION	Relevant Passage(s)	T*
	69	WO 02/083951 A1	2002-10-24	Northeastern University		
	70	WO 02/074929 A1	2002-09-26	The President and Fellows of Harvard College		
	71	WO 01/53539 A1	2001-07-26	Phylos, Inc.		
	72	WO 01/00876 A1	2001-01-04	C. A. MIRKIN et al.		
	73	WO 00/61775 A1	2000-10-19	P. SERGEEV		
	74	WO 00/47775 A1	2000-08-17	The General Hospital Corp.		
	75	WO 00/32823 A1	2000-06-08	Phylos, Inc.		
	76	WO 00/23456 A1	2000-04-27	The Board of Trustees of the Leland Stanford Junior University		
	77	WO 00/21909 A2	2000-04-20	Pharmacopeia, Inc.		
	78	WO 99/51773 A1	1999-10-14	Phylos, Inc.		
	79	WO 98/56904 A1	1998-12-17	Rigel Pharmaceuticals, Inc.		
	80	WO 98/31700 A1	1998-07-23	The General Hospital Corp.		
	81	WO 96/35699 A1	1996-11-14	Northwestern University		
	82	WO 96/35699 A1	1996-11-14	Northwestern University		
	83	WO 96/12014 A1	1996-04-25	Lynx Therapeutics, Inc.		
	84	WO 96/09316 A1	1996-03-28	Nexstar Pharmaceuticals, Inc.		
	85	WO 95/12608 A1	1995-05-11	J. Sugarman et al.		
	86	WO 93/03172 A1	1993-02-18	University Research Corp.		
	87	WO 91/05058 A1	1991-04-18	G. Kawasaki		
	88	WO 90/05785 A1	1990-05-31	The Regents of the University of California		

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OTHER DOCUMENTS (Continued) (include AUTHOR, title, name of publication, volume, pages & date of publication) Please list in alphabetical order.

	89	O. L. ACEVEDO et al., "Non-enzymatic Transcription of an Oligodeoxynucleotide 14 Residues Long", J. Mol. Biol., 197:187-193, 1987.
	90	O. L. ACEVEDO et al., "Template-directed oligonucleotide ligation on hydroxylapatite", Nature, 321, 790-792, 19 June 1986.
	91	D. ALBAGLI et al., "Chemical Amplification (CHAMP) by a Continuous, Self-Replicating Oligonucleotide-Based System", J. Am. Chem. Soc., 121, 6954-6955, 1999.
	92	S. A. BENNER, "Expanding the genetic lexicon: incorporating non-standard amino acids into proteins by ribosome-based synthesis", TIBTECH, 12, 158-163, May 1994.
	93	M. BERGER et al., "Universal bases for hybridization, replication and chain termination", Nucleic Acids Research, 28(15), 2911-2914, 2000.
	94	J. A. BITTKER et al., "Recent advances in the *in vitro* evolution of nucleic acids", Current Opinion in Chemical Biology, 6:367-374, 2002.
	95	C. BÖHLER et al., "Template switching between PNA and RNA oligonucleotides", Nature, 376:578-581, 17 August 1995.
	96	E. BRAUN et al., "DNA-templated assembly and electrode attachment of a conducting silver wire", Nature, 391:775-778, 19 February 1998.
	97	S. BRENNER et al., "Encoded combinatorial chemistry", Proc. Natl. Acad. Sci. USA., 89:5381-5383, June 1992.
	98	R. K. BRUICK et al., "A simple procedure for constructing 5'-amino-terminated oligodeoxynucleotides in aqueous solution", Nucleic Acids Research, 25(6):1309-1310, 1997.
	99	R. K. BRUICK et al., "Template-directed ligation of peptides to oligonucleotides", Chemistry & Biology, 3:49-56, January 1996.
	100	C. T. CALDERONE et al., "Directing Otherwise Incompatible Reactions in a Single Solution by Using DNA-templated Organic Synthesis", Angew. Chem. Int. Ed., 41(21): 4104-4108, 2002.
	101	C. T. CALDERONE et al., "Nucleic-acid-templated synthesis as a model system for ancient translation", Current Opinion in Chemical Biology, 8:645-653, 2004.
	102	C. B. CHEN et al., "Template-directed Synthesis on Oligodeoxycytidylate and Polydeoxycytidylate Templates", J. Mol. Biol., 181: 271-279, 1985.
	103	B. CHAN et al., "Intra-tRNA distance measurements for nucleocapsid protein-dependent tRNA unwinding during priming of HIV", Proc. Natl. Acad. Sci. USA, 96:459-464, January 1999.
	104	G. R. L. COUSINS et al., "Identification and Isolation of a Receptor for N-Methyl Alkylammonium Salts: Molecular Amplification in a Pseudo-peptide Dynamic Combinatorial Library", Angew. Chem. Int. Ed. 40(2): 423-428, 2001.

EXAMINER	DATE CONSIDERED

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OTHER DOCUMENTS (Continued) (include AUTHOR, title, name of publication, volume, pages & date of publication) Please list in alphabetical order.

	105	J. L. CZLAPINSKI et al., "Nucleic-acid Template-Directed Assembly of Metallosalen - DNA Conjugates", J. Am. Chem. Soc., 123:8618-8619, 2001.
	106	S. H. DeWITT et al., ""Diversomers": An approach to nonpeptide, nonoligomeric chemical diversity", Proc. Natl. Acad. Sci. USA, 90: 6909-6913, August 1993.
	107	W. J. DOWER et al., "*In vitro* selection as a powerful tool for the applied evolution of proteins and peptides", Current Opinion in Chemical Biology, 6: 390-398, 2002.
	108	J. B. DOYON et al., "Highly Sensitive *In Vitro* Selections for DNA-Linked Synthetic Small Molecules with Protein Binding Affinity and Specificity", J. Am. Chem. Soc., 2 pages (including supporting information S1-S8), 16 September 2003
	109	R. ELGHANIAN et al., "Selective Colorimetric Detection of Polynucleotides Based on the Distance-Dependent Optical Properties of Gold Nanoparticles", Science, 227: 1078-1081, 22 August 1997.
	110	J. ELLMAN et al., "Biosynthetic Method for Introducing Unnatural Amino Acids Site-Specifically into Proteins", Methods in Enzymology, 202: 301-336, 1992.
	111	A. G. FRUTOS et al., "Demonstration of a word design strategy for DNA computing on surfaces", Nucleic Acids Research, 25(23): 4748-4757, 1997.
	112	K. FUJIMOTO et al., "Template-Driven Photoreversible Ligation of Deoxyoligonucleotides via 5-Vinyldeoxyuridine", J. Am. Chem. Soc., 122:5646-5647, 2000.
	113	K. FUJIMOTO et al., "Template-directed reversible photocircularization of DNA via 5-vinyldeoxycytidine", Tetrahedron Letters, 41: 6451-6454, 2000.
	114	K. FUJIMOTO et al., "Template directed photochemical synthesis of branched oligodeoxynucleotides via 5-carboxyvinyldeoxyuridine", Tetrahedron Letters, 41: 9437-9440, 2000.
	115	R. L. E. FURLAN et al., "Molecular amplification in a dynamic combinatorial library using non-covalent interactions", Chem. Commun., 1761-1762, 2000.
	116	Z. J. GARTNER et al., "DNA-templated Organic Synthesis and Selection of a Library of Macrocycles", Science, 305: 1601-1605 and 10 pages online supporting material, 10 September 2004.
	117	Z. J. GARTNER et al., "Expanding the Reaction Scope of DNA-Templated Synthesis", Angew. Chem. Int. Ed., 41(10): 1796-1800, 2002.
	118	Z. J. GARTNER et al., "The Generality of DNA-Templated Synthesis as a Basis for Evolving Non-Natural Small Molecules", J. Am. Chem. Soc., 123: 6961-6963, 2001.
	119	Z. J. GARTNER et al., "Multistep Small-Molecule Synthesis Programmed by DNA Templates", J. Am. Chem. Soc., 124: 10304-10306, 2002.
	120	R. GRUBINA et al., "DNA-Templated Synthesis of a Synthetic Small Molecule Library", The Nucleus, 10-14, January 2004.

EXAMINER	DATE CONSIDERED

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.L./

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OTHER DOCUMENTS (Continued) (include AUTHOR, title, name of publication, volume, pages & date of publication) Please list in alphabetical order.

	121	Z. J. GARTNER et al., "Two Enabling Architectures for DNA-Templated Organic Synthesis", Angew. Chem. Int. Ed., 42(12): 1370-1375, 2003.
	122	E. M. GORDON et al., "Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions", J. Medicinal Chem., 37(10):1385-1401, 13 May 1994.
	123	S. M. GRYAZNOV et al., "Chemical Ligation of Oligonucleotides in the Presence and Absence of a Template", J. Am. Chem. Soc., 115: 3808-3809, 1993.
	124	S. M. GRYAZNOV et al., "Template controlled coupling and recombination of oligonucleotide blocks containing thiophosphoryl groups", Nucleic Acids Research, 21(6): 1403-1408, 1993.
	125	S. M. GRYAZNOV et al., "Enhancement of selectivity in recognition of nucleic acids via chemical autoligation", Nucleic Acids Research, 22(12): 2366-2369, 1994.
	126	D. R. HALPIN et al., "DNA Display I. Sequence-Encoded Routing of DNA Populations", PLoS Biology, 2(7): 0001-0006, July 2004.
	127	D. R. HALPIN et al., "DNA Display II. Genetic Manipulation of Combinatorial Chemistry Libraries for Small Molecule Evolution", PLoS Biology, 2(7): 0001-0009, July 2004.
	128	D. R. HALPIN et al., "DNA Display III. Solid-Phase Organic Synthesis on Unprotected DNA", PLoS Biology, 2(7): 0001-0006, July 2004.
	129	M. K. HERRLEIN et al., "Selective chemical autoligation on a double-stranded DNA template", Nucleic Acids Research, 22(23): 5076-5078, 1994.
	130	T. INOUE et al., "A Nonenzymatic RNA Polymerase Model", Science, 219: 859-862, 18 February 1983.
	131	T. INOUE et al., "Oligomerization of (Guanosine 5'-phosphor)-2-methylimidazolide on Poly(C)", J. Mol. Biol., 162: 201-217, 1982.
	132	M. W. KANAN et al., "Reaction discovery enabled by DNA-templated synthesis and *in vitro* selection", Nature, 431:545-549 , including Supplementary Information pages 1-20, 30 September 2004.
	133	K. C. KEILER et al., "Role of a Peptide Taggin System in Degradation of Proteins Synthesized from Damaged Messenger RNA", Science, 271: 990-993, 16 February 1996.
	134	B. KLEKOTA et al., "Selection of DNA-Binding Compounds *via* Multistage Molecular Evolution", Tetrahedron, 55:11687-11697, 1999.
	135	M. KURZ et al., "An Efficient Synthetic Strategy for the Preparation of Nucleic Acid-Encloded Peptide and Protein Libraries for *In Vitro* Evolution Protocols", Fourth International Electronic Conference on Synthetic Organic Chemistry (ECSOC-4), www.mdpi.org/ecsoc-4.htm 5 pages, Sept. 1-30, 2000.

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OTHER DOCUMENTS (Continued) (include AUTHOR, title, name of publication, volume, pages & date of publication) Please list in alphabetical order.

	136	M. KURZ et al., "Psoralen photo-crosslinked mRNA-puromycin conjugates: a novel template for the rapid and facile preparation of mRNA-protein fusions", Nucleic Acids Research, 28(18): 1-5, 2000.
	137	J. C. LEITZEL et al., "Template-Directed Ligation: From DNA Towards Different Versatile Templates", Chem. Rec., 1(1): 53-62, 2001.
	138	R. L. LETSINGER et al., "Chemical and Photochemical Ligation of Oligonucleotide Blocks", Nucleosides & Nucleotides, 16(5&6): 643-652, 1997.
	139	R. L. LEWIS et al., "Ligation of oligonucleotides by pyrimidine dimers-a missing 'link' in the origin of life?", Nature, 298: 393-396, 22 July 1982.
	140	X. LI et al., "DNA-Catalyzed Polymerization", J. Am. Chem. Soc., 124(5): 746-747, 2002.
	141	X. LI et al., "DNA-Templated Organic Synthesis: Nature's Strategy for Controlling Chemical Reactivity Applied to Synthetic Molecules", Angew. Chem. Int. Ed., 43: 4848-4870, 2004.
	142	X. LI et al., "Stereoselectivity in DNA-Templated Organic Synthesis and Its Origins", J. Am. Chem. Soc., 125: 10188-10189, 2003.
	143	X. LI et al., "Translation of DNA into Synthetic *N*-Acyloxazolidines", J. Am. Chem. Soc., 126: 5090-5092, 2004.
	144	D. R. LIU et al., "DNA-Templated Synthesis as a Basis for the Evolution of Synthetic Molecules", Abstracts of Papers of the Am. Chem. Soc., 225: 612-ORGN, Part 2, March 2003.
	145	D. R. LIU, "Development of Amplifiable and Evolvable Unnatural Molecules", website of Dr. D. R. Liu, publicly available 11 March 2000. http://web.archive.org/web/20000311112631/http://evolve.harvard.edu
	146	D. R. LIU et al., "The Chemistry of Molecular Evolution", website of Dr. D. R. Liu, publicly available 15 Oct. 2000. http://web.archive.org/web/20001015144553/http://evolve.harvard.edu
	147	D. R. LIU et al., "The Chemistry and Chemical Biology of Molecular Evolution", website of Dr. D. R. Liu, publicly available 1 March 2001. http://web.archive.org/web/20010301175107/http://evolve.harvard.edu
	148	D. R. LIU et al., "The Chemistry and Chemical Biology of Molecular Evolution", website of Dr. D. R. Liu, publicly available 20 Nov. 2002. http://web.archive.org/web/20021120104204/http://evolve.harvard.edu
	149	D. R. LIU et al., "The Chemistry and Chemical Biology of Molecular Evolution", website of Dr. D. R. Liu, publicly available 15 Oct. 2003. http://web.archive.org/web/20031015114255/http://evolve.harvard.edu
	150	D. R. LIU, "Development of Amplifiable and Evolvable Unnatural Molecules", Harvard Univ.Dept. of Chemistry and Chemical Biology, Report dated Aug. 4, 2003. OMB Form No. 0704-0188.

EXAMINER	DATE CONSIDERED

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OTHER DOCUMENTS (Continued) (include AUTHOR, title, name of publication, volume, pages & date of publication) Please list in alphabetical order.

	151	D. R. LIU et al., "Finding Reactions in a Haystack: Try 'em All, See What Works", Science, Vol. 305, 10 Sept. 2004. Meeting: American Chemical Society.
	152	D. R. LIU et al., "Engineering a tRNA and aminoacyl-tRNA synthetase for the site-specific incorporation of unnatural acids into proteins *in vivo*", Proc. Natl. Acad. Sci. USA, 94: 10092-10097, September 1997.
	153	D. R. LIU et al., "Progress toward the evolution of an organism with an expanded genetic code", Proc. Natl. Acad. Sci. USA, 96: 4780-4785, April 1999.
	154	D. R. LIU, "Primer: Translating DNA into Synthetic Molecules", PLoS Biology, 2(7): 0905-0906, July 2004.
	155	J. LIU et al., "Template-directed photoligation of oligodeoxyribonucleotides via 4-thiothymidine", Nucleic Acids Research, 26(13):3300-3304, 1998.
	156	R. LIU et al., "Optimized Synthesis of RNA-Protein Fusions for *in Vitro* Protein Selection", Methods in Enzymology, Vol. 318, 268-293, 2000.
	157	C. J. LOWETH et al., "DNA-Based Assembly of Gold Nanocrystals", Angew. Chem. Int. Ed., 38(12), 1808-1812, 1999.
	158	P. LUO et al., "Analysis of the Structure and Stability of a Backbone-Modified Oligonucleotide: Implications for Avoiding Product Inhibition in Catalytic Template-Directed Synthesis", J. Am. Chem. Soc., 120: 3019-3031, 1998.
	159	A. LUTHER et al., "Surface-promoted replication and exponential amplification of DNA analogues", Nature, 396: 245-248, 19 Nov. 1998.
	160	D. MENDEL, "Site-Directed Mutagenesis with an Expanded Genetic Code", Annual Review Biophys. Biomol. Struct., 24:435-462, 1995.
	161	C. A. MIRKIN, "Programming the Assembly of Two- and Three-Dimensional Architectures with DNA and Nanoscale Inorganic Building Blocks", Inorg. Chem., 39:2258-2272, 2000.
	162	I. A. NAZARENKO et al., "A closed tube format for amplification and detection of DNA based on energy transfer", Nucleic Acids Research, 25(12):2516-2521, 1997.
	163	N. NEMOTO et al., "In vitro virus: Bonding of mRNA bearing puromycin at the 3'-terminal end to the C-terminal end of its encoded protein on the ribosome in vitro", FEBS Letters, 414:405-408, 1997.
	164	J. NIELSEN et al., "Synthetic Methods for the Implementation of Encoded Combinatorial Chemistry", J. Am. Chem. Soc., 115:9812-9813, 1993.
	165	M. H. J. OHLMEYER et al., Complex synthetic chemical libraries indexed with molecular tags", Proc. Natl. Acad. Sci., 90:10922-10926, December 1993.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	EXAMINER: Not Yet Known	CONF. NO: 4397 ART UNIT: 1645

OTHER DOCUMENTS (Continued) (include AUTHOR, title, name of publication, volume, pages & date of publication) Please list in alphabetical order.

	166	S. OTTO et al., "Recent developments in dynamic combinatorial chemistry", Current Opinion in Chemical Biology, 6:321-327, 2002.
	167	M. R. PAVIA, "The Chemical generation of Molecular Diversity", Network Science, http://www.netsci.org/Science/Combichem/feature01.html.
	168	J. A. Piccirilli, "RNA seeks its maker", Nature, 376:548-549, 17 Aug. 1995.
	169	O. RAMSTRÖM et al., "In Situ Generation and Screening of a Dynamic Combinatorial Carbohydrate Library against Concanavalin A", Chembiochem, 1:41-48, 2000.
	170	H. REMBOLD et al., "Single-Strand Regions of Poly(G) Act as Templates for Oligo(C) Synthesis", Journal of Molecular Evolution, 38:205-210, 1994.
	171	R. W. ROBERTS et al., "RNA-peptide fusions for the *in vitro* selection of peptides and proteins", Proc. Natl. Acad. Sci., 94:12297-12302, November 1997.
	172	S. L. ROBERTS et al., "Simultaneous selection, amplification and isolation of a pseudo-peptide receptor by an immobilized *N*-methyl ammonium ion template", Chem. Commun., 938-939, 2002.
	173	L. RODRIGUEZ et al., "Template-Directed Extension of a Guanosine 5'-Phosphate Covalently Attached to an Oligodeoxycytidylate Template", Journal of Molecular Evolution, 33:477-482, 1991.
	174	D. M. ROSENBAUM et al., "Efficient and Sequence-Specific DNA-Templated Polymerization of Peptide Nucleic Acid Aldehydes", J. Am. Chem. Soc., 125:13924-13925, 2003.
	175	K. SAKURAI et al., "DNA-Templated Functional Group Transformations Enable Sequence-Programmed Synthesis Using Small-Molecule Reagents", J. Am. Chem. Soc., 127:1660-1661, 2005.
	176	J. SALAS et al., "Biosynthetic Polydeoxynucleotides as Direct Templates for Polypeptide Synthesis", J. Biol. Chem., 243(5):1012-1015, March 10, 1968.
	177	J. S. SCHMIDT et al., "Information transfer from DNA to peptide nucleic acids by template-directed syntheses", Nucleic Acids Research, 25(23):4792-4796, 1997.
	178	A. W. SCHWARTZ et al., "Template-Directed Synthesis of Novel, Nucleic Acid-Like Structures", Science, 228:585-587, 1985.
	179	B. SMITH et al., "DNA-Guided Assembly of Proteins as a Pathway to an Assembler", The 1997 Albany Conference, Biomolecular Motors and Nanomachines.
	180	J. J. STORHOFF et al., "Programmed Materials Synthesis with DNA", Chem. Rev. 99:1849-1862, 1999.
	181	D. SUMMERER et al., "DNA-Templated Synthesis: More Versatile than Expected", Angew. Chem. Int. Ed., 41(1): 89-90, 2002.

EXAMINER	DATE CONSIDERED

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OTHER DOCUMENTS (Continued) (include AUTHOR, title, name of publication, volume, pages & date of publication) Please list in alphabetical order.

	182	K. TAMURA et al., "Oligonucleotide-directed peptide synthesis in a ribosome- and ribozyme-free system", PNAS, 98(4):1393-1397, February 13, 2001.
	183	K. TANAKA et al., "Synthesis of a Novel Nucleoside for Alternative DNA Base Pairing through Metal Complexation", J. Org. Chem., 64:5002-5003, 1999.
	184	J. VISSCHER et al., "Template-Directed Synthesis of Acyclic Oligonucleotide Analogues", J. Mol. Evol., 28:3-6, 1988.
	185	J. VISSCHER et al., "Template-Directed Oligomerization Catalyzed by a Polynucleotide Analog", Science, 244:329-331, April 21, 1989.
	186	J. VISSCHER et al., "Oligomerization of Deoxynucleoside-Bisphosate Dimers: Template and Linkage Specificity", Originals of Life and Evolution of the Biosphere, 19:3-6, 1989.
	187	J. A. WALDER et al., "Complementary carrier peptide synthesis: General strategy and implications for prebiotic origin of peptide synthesis", Proc. Natl. Acad. Sci. USA, 76(1):51-55, January 1979.
	188	L. WANG et al., "A New Functional Suppressor tRNA/Aminoacyl-tRNA Synthetase Pair for the in Vivo Incorporation of Unnatural Amino Acids into Proteins", J. Am. Chem. Soc. 122:5010-5011, 2000.
	189	H. WEIZMAN et al., "2,2'-Bipyridine Ligandoside: A Novel Building Block for Modifying DNA with Intra-Duplex Metal", J. Am. Chem. Soc., 123:3375-3376, 2001.
	190	S. M. WAYBRIGHT et al., "Oligonucleotide-Directed Assembly of Materials: Defined Oligomers", J. Am. Chem. Soc., 123:1828-1833, 2001.
	191	Y. XU et al., "Nonenzymatic autoligation in direct three-color detection of RNA and DNA point mutations", Nature Biotechnology, 19:148-152, February 2001.
	192	Y. XU et al., "Rapid and Selective Selenium-Mediated Autoligation of DNA Strands", J. Am. Chem. Soc., 122:9040-9041, 2000.
	193	Z. J. ZHAN et al., "Chemical Amplification through Template-Directed Synthesis", J. Am. Chem. Soc., 119:12420-12421, 1997.
	194	R. N. ZUCKERMANN et al., "Discovery ofNanomolar Ligands for 7-Transmembrane G-Protein-Coupled Receptors from a Diverse N-(Substituted)glycine Peptoid Library", J. Med. Chem., 37:2678-2685, 1994.

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